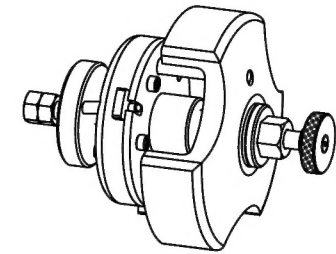
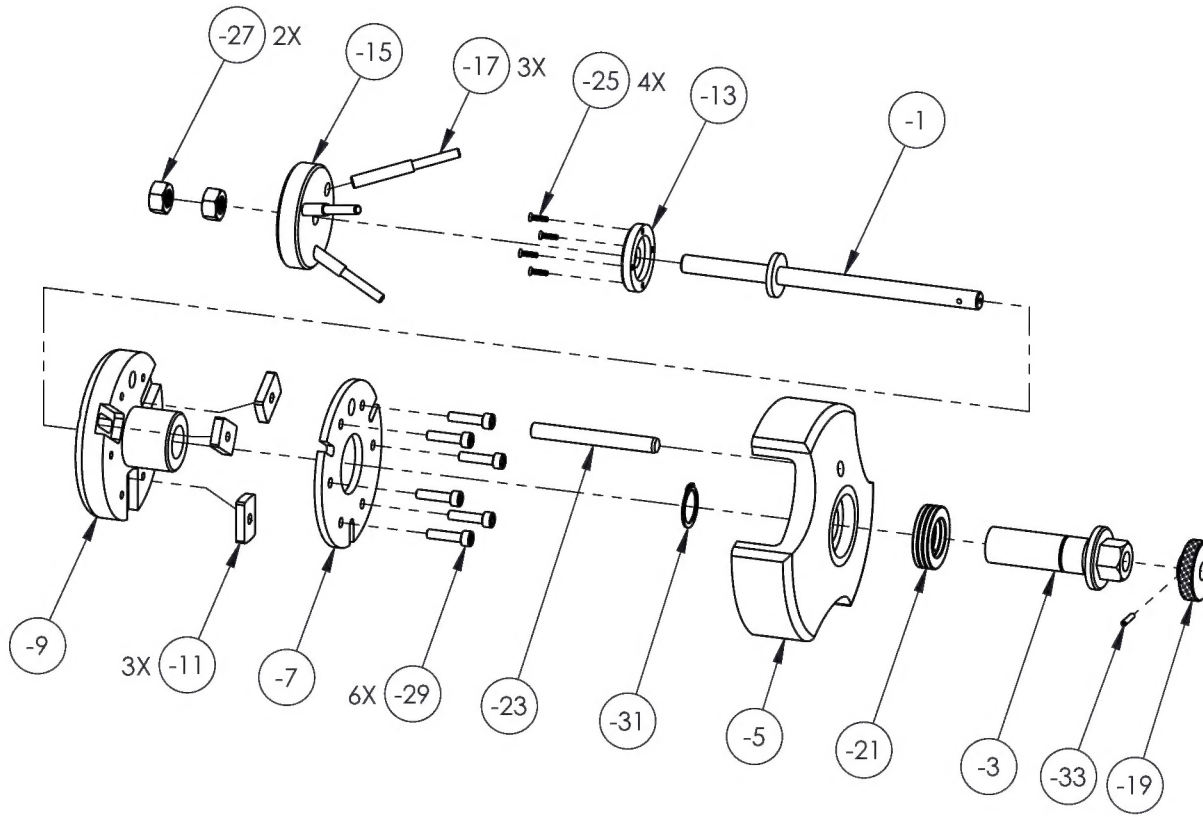


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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		RELEASED FOR PRODUCTION	1/21/2016	DPD	JAG



NOTE:
REF. EUROCOPTER T/N: 105-14101W2.

ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
			-1	1	BOLT	4140/4142 Q & T		2
			-3	1	BOLT WITH THRU HOLE	4140/4142 Q & T		3
			-5	1	DISK	6061		4
			-7	1	PIN PLATE COVER	4140/4142 Q & T		5
			-9	1	PIN PLATE BASE	4140/4142 Q & T		6
			-11	3	PLATE	4140/4142		7
			-13	1	CAP	6061		8
			-15	1	PIN BASE	4140/4142		9
			-17	3	PIN	O-1		10
			-19	1	KNURLED KNOB	6061		11
		B/O	-21	1	THRUST BALL BEARING	STEEL	Ø25mm I.D. X Ø 42mm O.D. X 11mm (SKF #51105)	1
		B/O	-23	1	DOWEL PIN	STEEL	Ø10mm X 90mm (MCMaster-CARR #91595A673)	1
		B/O	-25	4	FLAT HEAD SCREW	STEEL	M3 X 0.5 X 12mm (MCMaster-CARR #91420A122)	1
		B/O	-27	2	LEFT-HAND HEX NUT	STEEL	M12 X 1.75 (MCMaster-CARR #93695A190)	1
		B/O	-29	6	SOCKET HEAD CAP SCREW	STEEL	M6 X 1 X 25mm (MCMaster-CARR #95263A561)	1
		B/O	-31	1	EXTERNAL RETAINING RING	STEEL	Ø24mm (MCMaster-CARR #98541A125)	1
		B/O	-33	1	SPRING PIN	STEEL	M3 X 18mm (MCMaster-CARR #91611A158)	1

DART
AEROSPACE

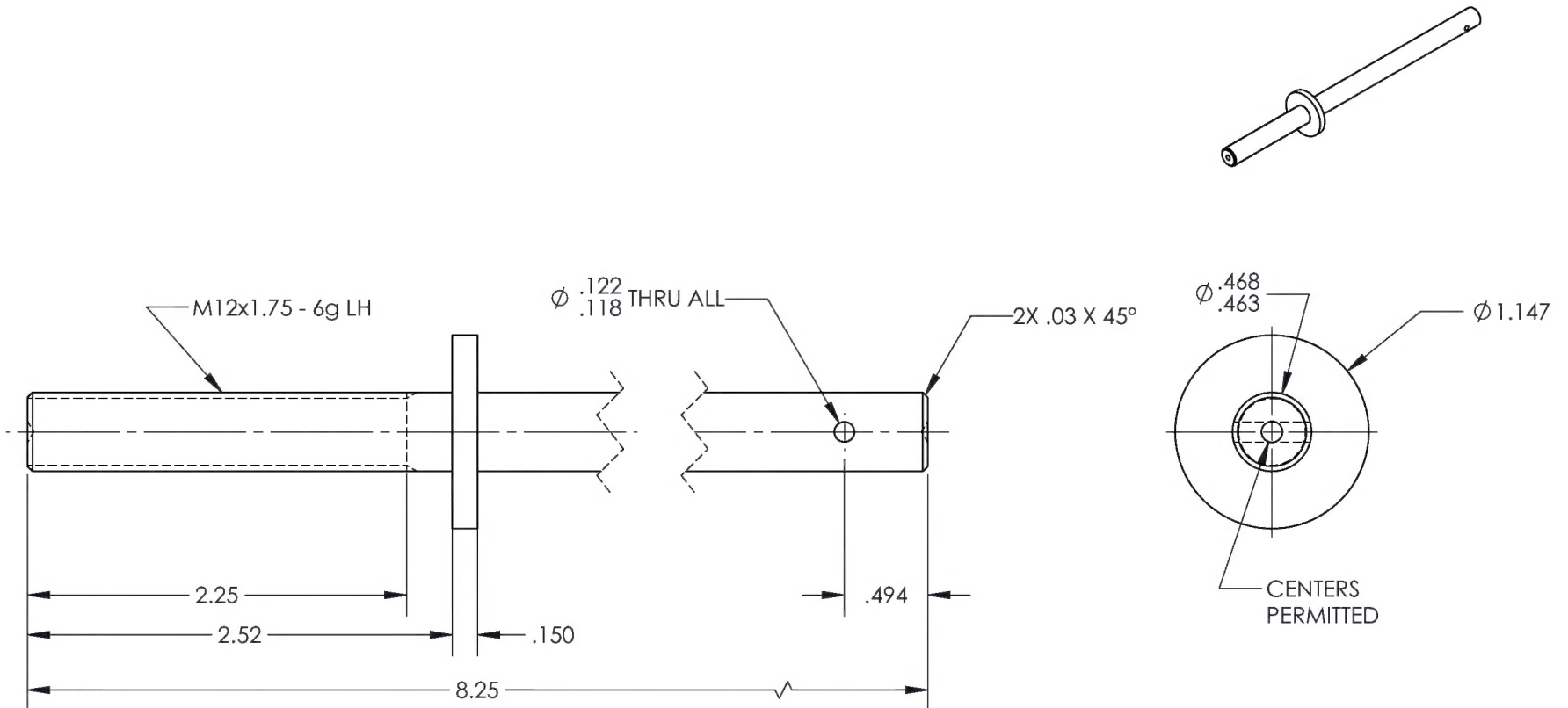
TITLE
EXTRACTOR FOR OUTER NEEDLE BEARING

DWG NO. RBE105-14101W2 REV 1

MAT'L		UNLESS OTHERWISE SPECIFIED	
TREAT		DIMENSIONS ARE IN INCHES	
FINISH		.XXX ± .005 FRACTIONS ± 1/8	
SPEC		.XX ± .01 ANGLES ± 5°	
DRAWN BY: DUERFELDT		.X ± .1 SURFACES = 125°	
CHECKED: CLOUGH		1. BREAK ALL SHARP EDGES	
OPPS APPR: ANDERSON		.015 x 45° OR .015R	
QA APPR: LINDSAY		2. DIMENSIONAL LIMITS APPLY	
APPROVED: GILBERT		AFTER PLATING	
SCALE 1:5		3. INTERPRET DIM AND TOL PER	
DATE 1/21/2016		ASME Y14.5M-2009	
SHEET 1 OF 11		USED ON MODEL	
		EC145	

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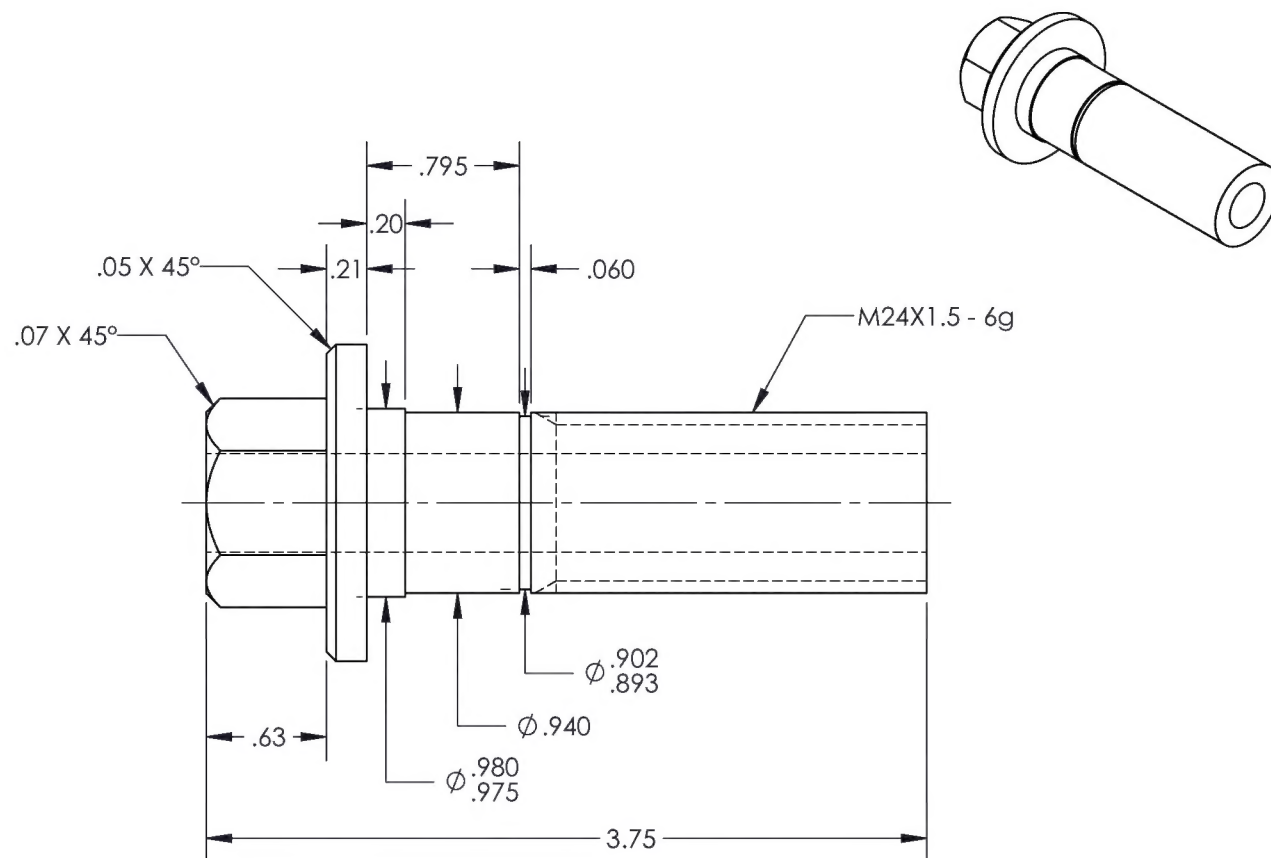
REVISIONS				
REV	ECR	DESCRIPTION	DATE	INITIAL
				APPROVED



(-1)
BOLT

DART AEROSPACE	
TITLE EXTRACTOR FOR OUTER NEEDLE BEARING	
DWG NO. RBE105-14101W2-1	REV 1
MAT'L 4140/4142 Q & T	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH ZINC PLATE	.XXX ± .005 FRACTIONS ± 1/8
SPEC ASTM B633 TYPE I SC 2	.XX ± .01 ANGLES ± 5°
DRAWN BY: CLOUGH	.X ± .1 SURFACES = 125°
CHECKED: CLOUGH	1. BREAK ALL SHARP EDGES
OPPS APPR: ANDERSON	.015 x 45° OR .015R
QA APPR: LINDSAY	2. DIMENSIONAL LIMITS APPLY
APPROVED: GILBERT	AFTER PLATING
	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
	USED ON MODEL
	EC145
SCALE 1:1	DATE 12/30/2015
	SHEET 2 OF 11

REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED

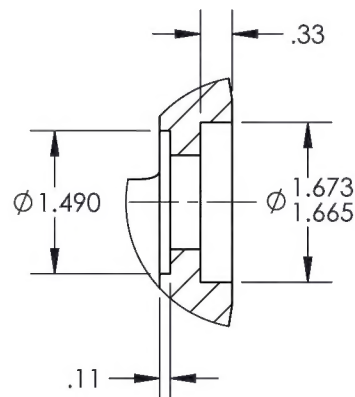
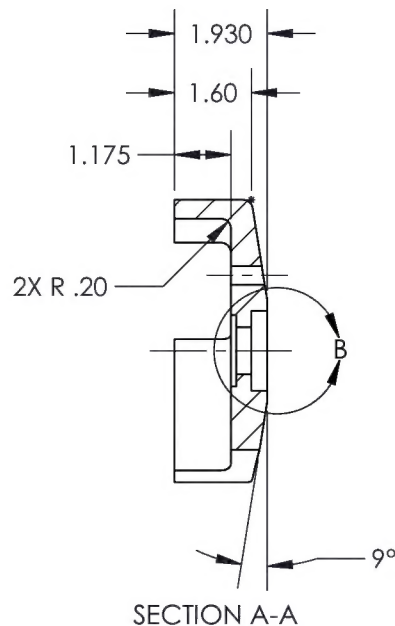
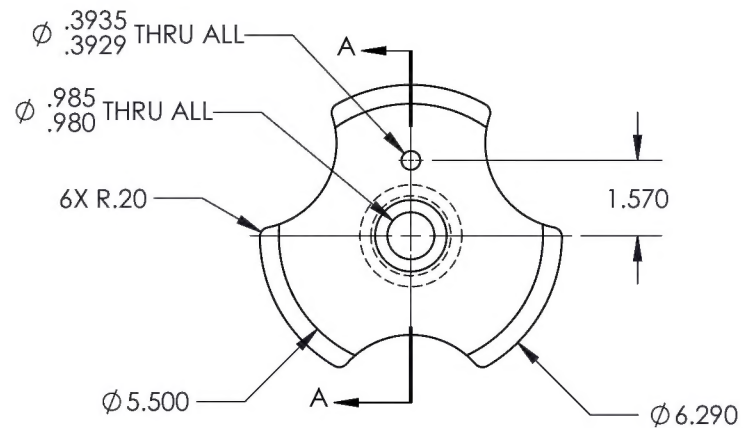


SCALE	1:1	DATE	1/21/2016	SHEET 3 OF 11
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BOLT WITH THRU HOLE

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				APPROVED



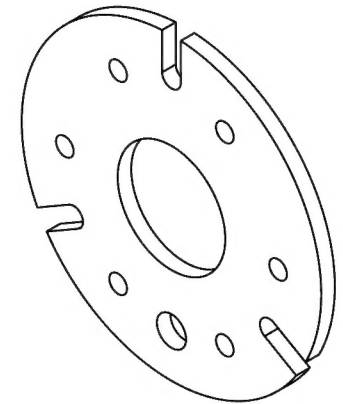
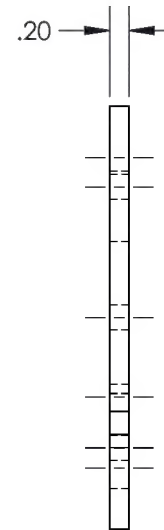
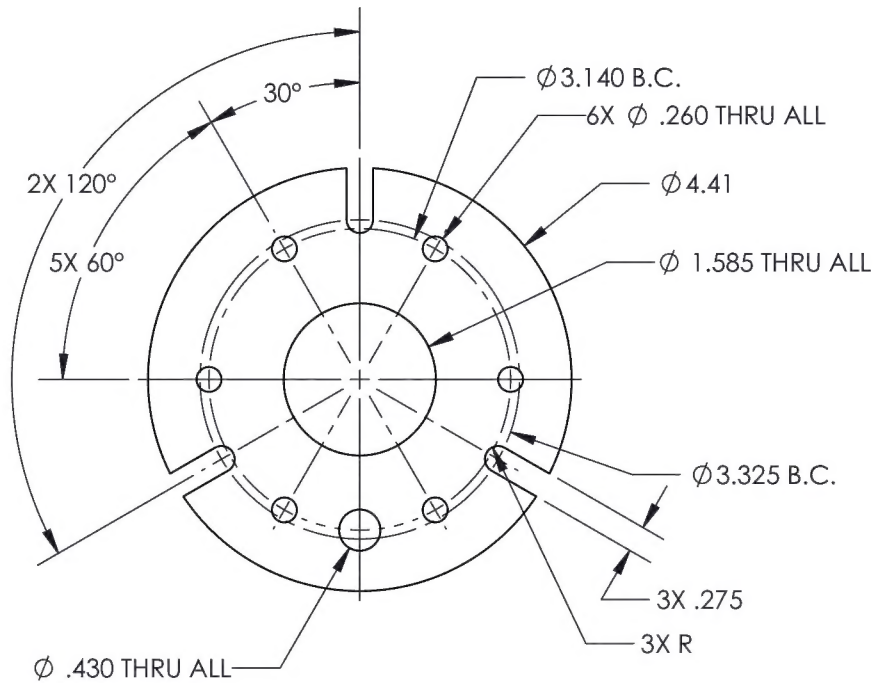
DETAIL B
SCALE 1 : 2

(5)
DISK

DART AEROSPACE	
TITLE EXTRACTOR FOR OUTER NEEDLE BEARING	
DWG NO. RBE105-14101W2-5	REV 1
MAT'L 6061 HEAT TREAT FINISH CLEAR ANODIZE SPEC MIL-A-8625, TYPE II, CLASS I DRAWN BY: CLOUGH CHECKED: CLOUGH OPPTS APPR: ANDERSON QA APPR: LINDSAY APPROVED: GILBERT	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± 5° .X ± .1 SURFACES = 125° 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
USED ON MODEL EC145	
SCALE 1:4	DATE 12/30/2015
SHEET 4 OF 11	

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				APPROVED




(-7)

PIN PLATE COVER

DART AEROSPACE	
TITLE EXTRACTOR FOR OUTER NEEDLE BEARING	
DWG NO. RBE105-14101W2-7	REV 1
MAT'L 4140/4142 Q & T	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH ZINC PLATE	.XXX ± .005 FRACTIONS ± 1/8
SPEC ASTM B633 TYPE I SC 2	.XX ± .01 ANGLES ± 5°
DRAWN BY: DUERFELDT	.X ± .1 SURFACES = 125°
CHECKED: CLOUGH	1. BREAK ALL SHARP EDGES
OPPS APPR: ANDERSON	.015 x 45° OR .015R
QA APPR: LINDSAY	2. DIMENSIONAL LIMITS APPLY
APPROVED: GILBERT	AFTER PLATING
	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
	USED ON MODEL
	EC145
SCALE 1:2	DATE 1/21/2016
	SHEET 5 OF 11

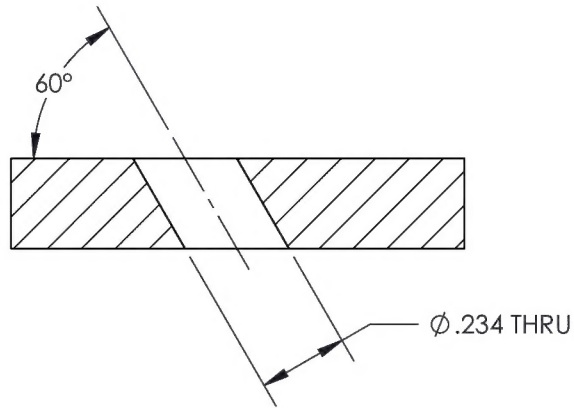
REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED



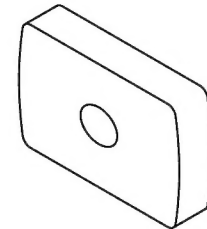
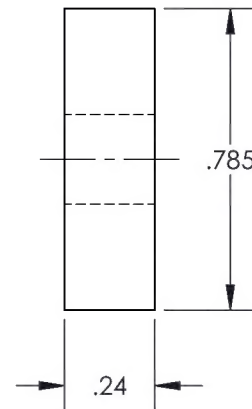
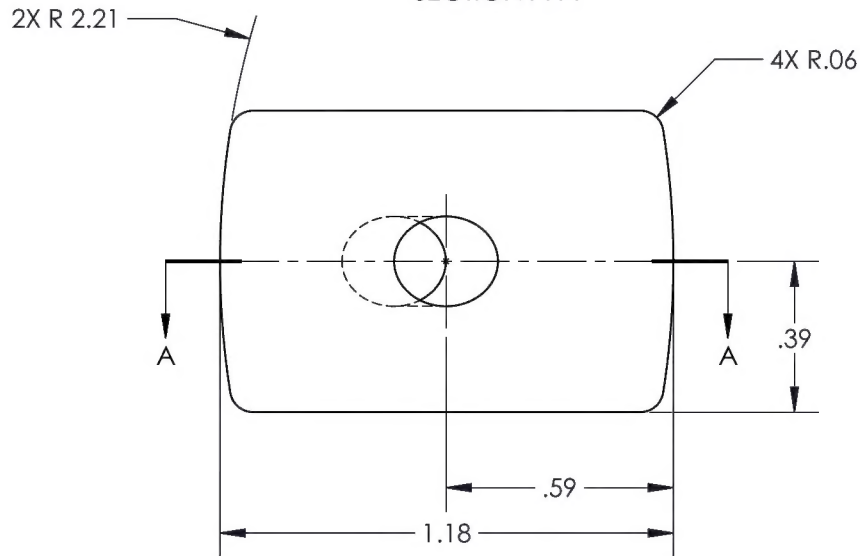
			
TITLE EXTRACTOR FOR OUTER NEEDLE BEARING			
DWG NO. RBE105-14101W2-9			REV 1
MAT'L 4140/4142 Q & T		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± .5° .X ± .1 SURFACES = 125/√	
HEAT TREAT			
FINISH ZINC PLATE			
SPEC ASTM B632 TYPE I SC 2			
DRAWN BY: DUERFELDT			
CHECKED:	CLOUGH	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
OPPS APPR:	ANDERSON		
QA APPR:	LINDSAY		
APPROVED:	GILBERT	USED ON MODEL EC145	
SCALE	1:2	DATE	1/21/2016
		SHEET 6 OF 11	

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				APPROVED



SECTION A-A



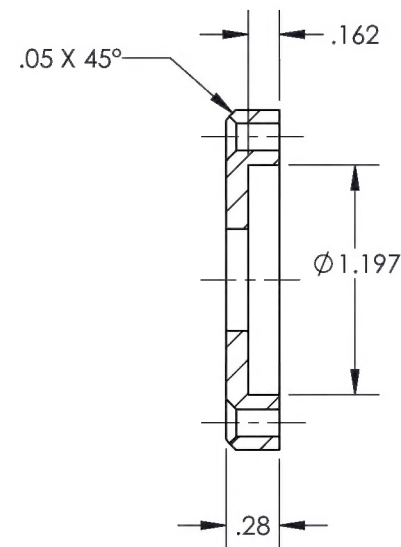
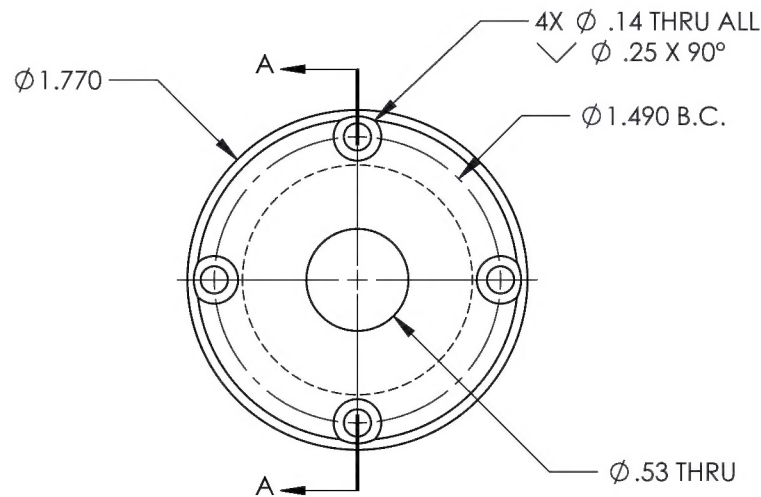
(-11)

PLATE

DART AEROSPACE	
TITLE EXTRACTOR FOR OUTER NEEDLE BEARING	
DWG NO. RBE105-14101W2-11	REV 1
MAT'L 4140/4142	UNLESS OTHERWISE SPECIFIED
HEAT TREAT HRC 40-45	DIMENSIONS ARE IN INCHES
FINISH ZINC PLATE	.XXX ± .005 FRACTIONS ± 1/8
SPEC ASTM B633 TYPE I SC 2	.XX ± .01 ANGLES ± .5°
DRAWN BY: CLOUGH	.X ± .1 SURFACES = 125
CHECKED: CLOUGH	1. BREAK ALL SHARP EDGES
OPPS APPR: ANDERSON	.015 x 45° OR .015R
QA APPR: LINDSAY	2. DIMENSIONAL LIMITS APPLY
APPROVED: GILBERT	AFTER PLATING
SCALE 2:1	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
DATE 12/31/2015	USED ON MODEL
	EC145
	SHEET 7 OF 11

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				APPROVED



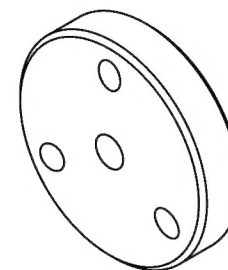
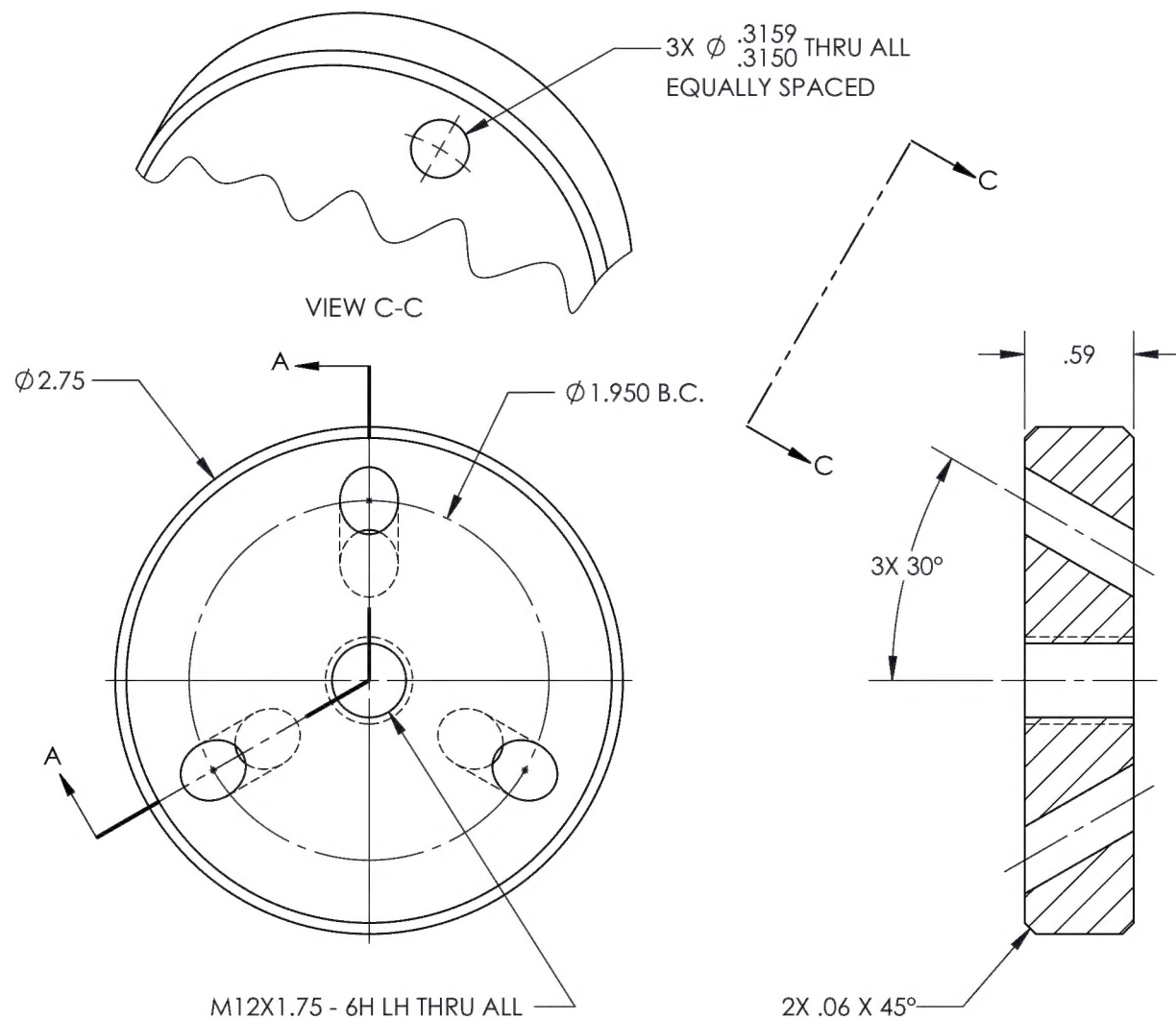
SECTION A-A

(-13)
CAP

DART AEROSPACE	
TITLE EXTRACTOR FOR OUTER NEEDLE BEARING	
DWG NO. RBE105-14101W2-13	REV 1
MAT'L 6061	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH CLEAR ANODIZE	.XXX ± .005 FRACTIONS ± 1/8
SPEC MIL-A-8625, TYPE II, CLASS I	.XX ± .01 ANGLES ± .5°
DRAWN BY: CLOUGH	.X ± .1 SURFACES = 125/√
CHECKED: CLOUGH	1. BREAK ALL SHARP EDGES
OPPS APPR: ANDERSON	.015 x 45° OR .015R
QA APPR: LINDSAY	2. DIMENSIONAL LIMITS APPLY
APPROVED: GILBERT	AFTER PLATING
	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
	USED ON MODEL
	EC145
SCALE 1:1	DATE 12/31/2015
	SHEET 8 OF 11

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				APPROVED

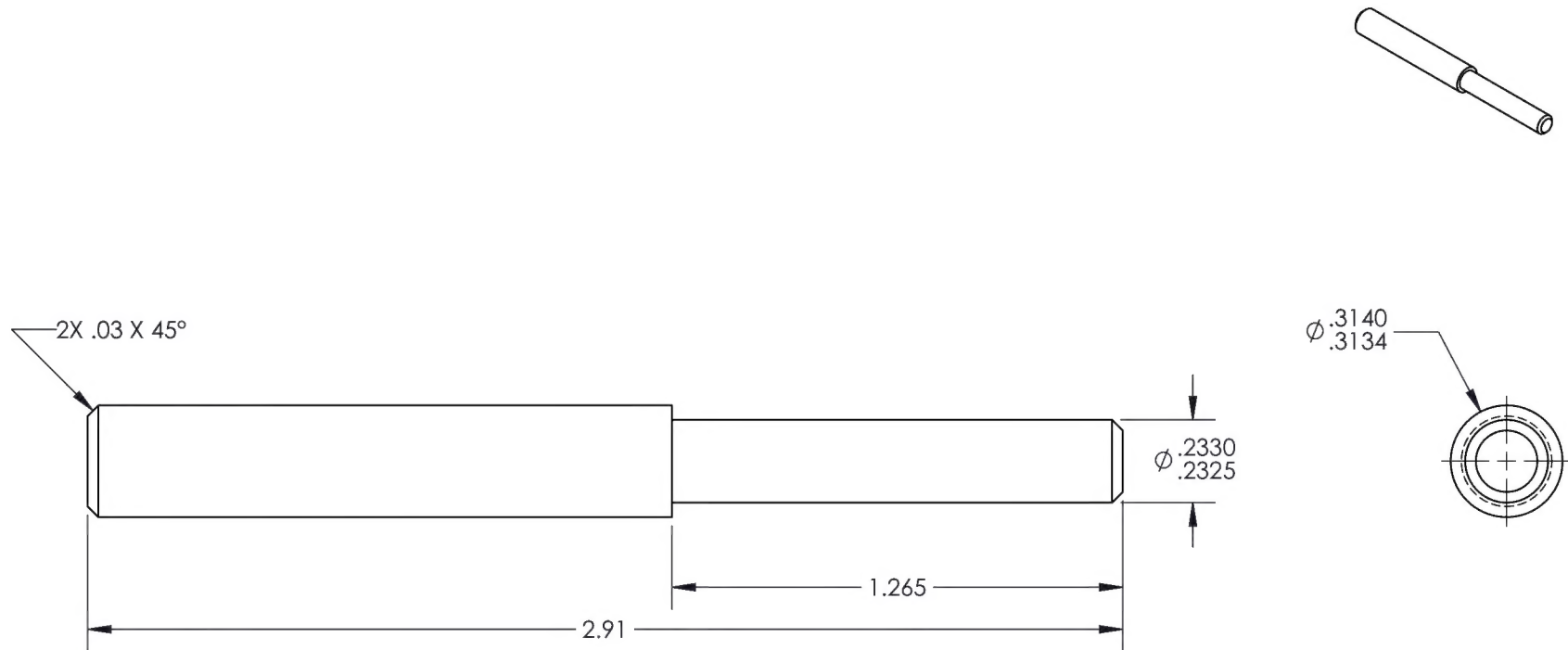


(-15)
PIN BASE

DART AEROSPACE	
TITLE EXTRACTOR FOR OUTER NEEDLE BEARING	
DWG NO. RBE105-14101W2-15	REV 1
MAT'L 4140/4142	UNLESS OTHERWISE SPECIFIED
HEAT RC 40-45	DIMENSIONS ARE IN INCHES
FINISH ZINC PLATE	.XXX \pm .005 FRACTIONS \pm 1/8
SPEC ASTM B633 TYPE I SC 2	.XX \pm .01 ANGLES \pm 5°
DRAWN BY: DUERFELDT	.X \pm .1 SURFACES = 125
CHECKED: CLOUGH	1. BREAK ALL SHARP EDGES
OPPS APPR: ANDERSON	.015 x 45° OR .015R
QA APPR: LINDSAY	2. DIMENSIONAL LIMITS APPLY
APPROVED: GILBERT	AFTER PLATING
SCALE 1:1	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
DATE 1/21/2016	USED ON MODEL
	EC145
	SHEET 9 OF 11

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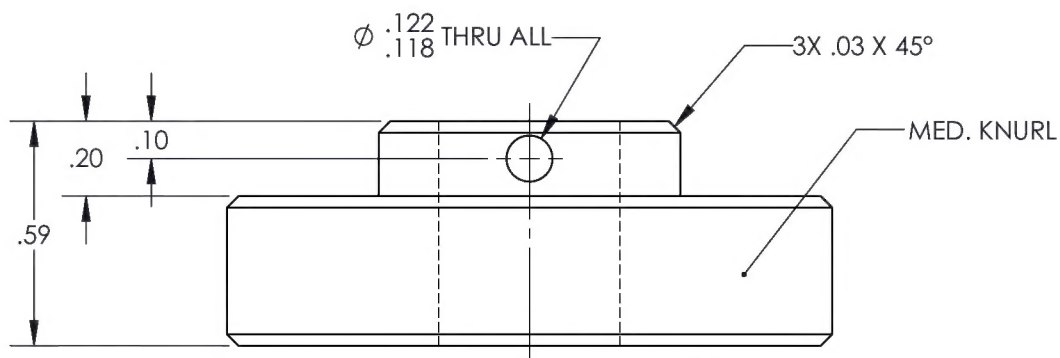
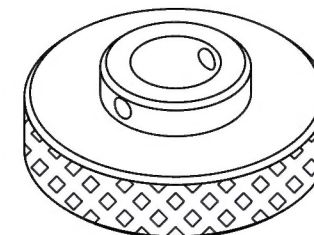
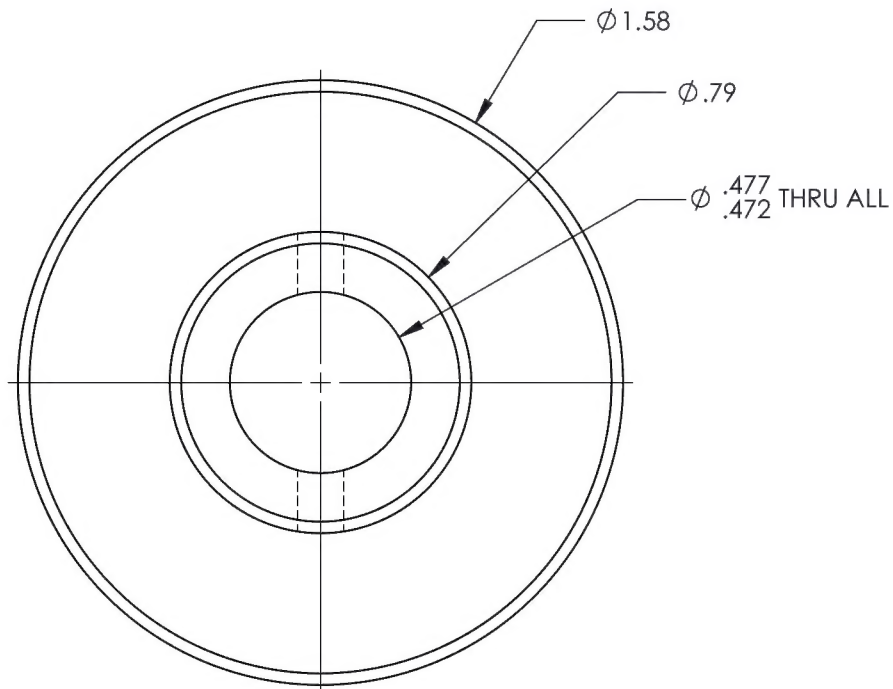
(-17)

PIN

DART AEROSPACE	
TITLE EXTRACTOR FOR OUTER NEEDLE BEARING	
DWG NO. RBE105-14101W2-17	REV 1
MAT'L O-1	UNLESS OTHERWISE SPECIFIED
HEAT TREAT HRC 50-55	DIMENSIONS ARE IN INCHES
FINISH ZINC PLATE	.XXX ± .005 FRACTIONS ± 1/8
SPEC ASTM B633 TYPE I SC 2	.XX ± .01 ANGLES ± 5°
DRAWN BY: CLOUGH	.X ± .1 SURFACES = 125°
CHECKED: CLOUGH	1. BREAK ALL SHARP EDGES
OPPS APPR: ANDERSON	.015 x 45° OR .015R
QA APPR: LINDSAY	2. DIMENSIONAL LIMITS APPLY
APPROVED: GILBERT	AFTER PLATING
SCALE 2:1	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
DATE 12/30/2015	USED ON MODEL
SHEET 10 OF 11	EC145

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			INITIAL
			APPROVED



(-19)

KNURLED KNOB

DART AEROSPACE	
TITLE EXTRACTOR FOR OUTER NEEDLE BEARING	
DWG NO. RBE105-14101W2-19	REV 1
MAT'L 6061	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
HEAT TREAT	.XXX \pm .005 FRACTIONS \pm 1/8
FINISH CLEAR ANODIZE	.XX \pm .01 ANGLES \pm 5°
SPEC MIL-A-8625, TYPE II, CLASS I	.X \pm .1 SURFACES = 125
DRAWN BY: DUERFELDT	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
CHECKED: CLOUGH	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
OPPS APPR: ANDERSON	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
QA APPR: LINDSAY	USED ON MODEL
APPROVED: GILBERT	EC145
SCALE 2:1	DATE 1/21/2016
SHEET 11 OF 11	